



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Pat McCrory  
Governor

Dexter R. Matthews  
Director

John E. Skvarla, III  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

**PERMIT TO OPERATE A SEPTAGE LAND  
APPLICATION SITE**

Hardee's Septic Tank Service  
William Hardee, Jr.  
1061 White Memorial Church Road  
Willow Springs, NC 27592

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-43-04** located on SR#1535 in Harnett County in approximate position 35.43790° N latitude and -78.71191° W longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued

6/7/2013

Martin A. Gallagher

Martin A. Gallagher, Branch Head  
Composting & Land Application Branch

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Telephone 919-707-8200 \ Internet <http://portal.ncdenr.org/web/wm/sw>

### CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by William Hardee, Jr. and approved by the Division of Waste Management. The 30 day waiting period between the last application of septage and the harvest of a crop shall be maintained. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan. **This land application site is currently inactive per the request of Mr. William Hardee. No land application may occur until the Division has inspected the site and found it to be in compliance with all permit conditions and the nutrient management plan. Before the Division shall grant approval for this site to become active, a recent soil analysis shall be received and evaluated by this office. The site shall also be GPS'd for accurate field acreage and a new site map.**
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by William Hardee, Jr. in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.

6. **This site is only permitted for the land application of domestic septage.**  
Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.
7. **This site contains approximately 11 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total, **maximum annual application rate of 550,000 gallons.** This application rate assumes equal septage distribution, on an annual basis, over the permitted area. Monthly septage applications shall not exceed the monthly relative application rates given in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 10,576 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.

13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on June 7, 2018.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line or within 200 feet of the unnamed intermittent stream that runs between the fields. Also, septage shall not be applied within 200 feet of the ponds around the site or within 100 feet of SR#1535.



North Carolina Department of Environment and Natural Resources

Division of Waste Management

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June 7, 2013

Mr. William Hardee, Jr.  
Hardee's Septic Tank Service  
1061 White Memorial Church Road  
Willow Springs, NC 27592

**RE: SLAS permit renewal  
Hardee's Septic Tank Service  
SLAS-43-04  
SR#1535 in Harnett County**

Dear Mr. Hardee:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Harnett County. Your application has been approved and your permit, # **SLAS-43-04**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **June 7, 2018**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have prior approval from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie Wylie, Soil Scientist  
Composting & Land Application Branch

# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

## I. Site and Operator Information

1. Applicant WILLIAM R. HARDEE, JR.  
Address 1061 WHITE MEMORIAL CHURCH RD.  
WILLOW SPRING, NC 27592  
Phone 919-639-2060

2. Contact person for site operation (if different from applicant):  
Title or position \_\_\_\_\_ Phone \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

3. Landowner SAME  
Address \_\_\_\_\_  
\_\_\_\_\_

4. Site Location: County HARNETT State Road Number \_\_\_\_\_  
Directions to site: HWY. 55 E. FROM ANGLER / (R) OAK GROVE CH. RD. /  
(L) MITCHELL RD. / APPROX. 1 MILE ON (R)

5. Indicate whether request is: new \_\_\_\_\_ renewal ☒ modification \_\_\_\_\_

For a permit renewal or modification, provide the following information:

Existing site permit number: SLAS 43-04 permit expiration date: 5-7-13

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 11 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:  
(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). ***If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.***

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): STDF 43-04 / SEE WWTP AUTHORIZATIONS ON FILE
4. Types of septage proposed to be discharged at the site (check all that apply):
  - (a) Domestic septage pumped from septic tanks ✓
  - (b) Grease trap pumpings \_\_\_\_\_
  - (c) Portable toilet waste \_\_\_\_\_
  - (d) Commercial / Industrial septage \_\_\_\_\_
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): LIME STABILIZATION TO A pH OF 12 FOR 30 MINUTES PRIOR TO LAND APPLICATION.
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): PRESSURIZED DISCHARGE USING A CONTOURED SPLASH PLATE FOR UNIFORM DISTRIBUTION, ALSO SIDE DISCHARGE. SEE SECTION E OF NUTRIENT MANAGEMENT PLAN.
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law \*\* or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): "AGRICULTURAL LAND SHALL NOT BE CONSIDERED POTENTIAL HABITAT." THIS IS AGRICULTURAL LAND. NO SEPTAGE WILL BE APPLIED TO ANY AREA THAT IS NOT AGRICULTURAL. THEREFORE, THE SITE COMPLIES.

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

William R. Hardee, Jr.  
Signature\*\*\*

1-14-13  
Date

WILLIAM R. HARDEE, JR.  
Print name

OWNER  
Title

Note: This application will not be reviewed until all parts of the application are complete.

\* Refer to Section .0837(e) of the N.C. Septage Management Rules.

\*\* Refer to Section .0837(g) of the N.C. Septage Management Rules.

\*\*\*Signature of company official required.

# Hardee's Septic Tank Service



1061 White Memorial Church Road  
Willow Spring, NC 27592  
919-639-2060



January 14, 2013

NCDENR, Div. of Waste Management  
Solid Waste Section  
1646 Mail Service Center  
Raleigh, NC 27699-1646



Dear Ms. Wylie:

Please find enclosed my Application for a Permit to Operate a Septage Land Application Site. Currently, the site is inactive. I would like for it to remain inactive at this time. I will notify you of any plans to change that status. Thanks.

Sincerely,

A handwritten signature in black ink that reads 'Bill Hardee'.

Bill Hardee  
Owner

NUTRIENT MANAGEMENT PLAN  
FOR  
SEPTAGE LAND APPLICATION SITE

NCS00086  
Septage Disposal Site #43-04

Hardee's Septic Tank Service  
1061 White Memorial Church Road  
Willow Spring, NC 27592  
(919) 639-2060

#### A. General Information

1. Periodic sampling at least twice a year of the septage will be conducted for waste analysis. A lime stabilized sample will be taken and analyzed for the following constituents: N, P, K, S, Ca, Fe, Mn, Zn, Cu, B, Ni, Cd, Pb, and  $\text{CaCO}_3$  equivalent.
2. Field #1 contains approximately 5.7 acres and Field #2 contains approximately 5 acres.
3. The dominant soil series at this site is Norfolk.
4. Septage will not be applied where the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3" in depth).
5. None of the 10.7 acres will be used for grazing.
6. Septage storage at the site is currently 100,000 gallons under permit #SDTF 43-04. As it is required that storage is to be provided to account for the average volume of septage pumped in a week, this is more than adequate. Arrangements have also been made with Wake, Johnston, and Harnett counties and with the town of Benson for an alternative plan to use their facilities.

#### B. Crops to be Grown and Approximate Planting Times

1. Field #1, including buffer zones, will have a permanent stand of coastal bermuda. Each year, the field will be overseeded with annual rye grass at a rate of approximately 50 lbs./acre in October or November. If the coastal bermuda stand falls below 80%, it will be resprigged at the rate of 30-40 bushels per acre from February 15 until April 15.
2. Field #2, including buffer zones, will have a permanent stand of tall fescue. In the event the field needs to be reseeded in the winter when fescue seed is unavailable, it will be reseeded with winter rye at a rate of approximately 50 lbs./acre. This can be done in October/November/December. If the fescue stand falls below 80%, it will be reseeded at a rate of 15-20 lbs. per acre (broadcast) or 10-15 lbs. per acre (drilled) from February 15 to March 20 or from September 1 to October 31.

#### C. Nitrogen Needs for Crops Grown

R.Y.E. = Realistic Yield Expectations

N Application Rate + Suggested N Application Rate based on R.Y.E. for soil type

<u>Crop (cut for hay)</u>	<u>R.Y.E.</u>		<u>N App. Rate</u>		<u>lbs. N/Acre</u>
Field #1					
coastal bermuda	5.5 tons/acre	x	40 lbs. N/dry ton	=	220
annual rye grass	2.0 tons/acre	x	25 lbs. N/dry ton	=	<u>50</u>
			Total		270
Field #2					
tall fescue	4.0 tons/acre	x	45 lbs. N/dry ton	=	180
annual rye grass	2.0 tons/acre	x	25 lbs. N/dry ton	=	<u>50</u>
			Total		230

Using the equation  $AAR = N/O.002$ , the N needs for Field #1 are met at the rate of 103,846.15 gal./acre/yr. The needs for Field #2 are met at the rate of 88,461.54 gal./acre/yr. Based on these calculations, an annual septage application rate of 50,000 gal./acre/yr. will not exceed federal guidelines.

#### D. Relative Application Rate for Fields #1 & #2

<u>Month</u>	<u>Field #1</u>	<u>Field #2</u>
January	Low	Low
February	Low	Medium
March	Medium	High
April	High	High
May	Medium	Medium
June	High	Low
July	High	Low
August	Medium	Low
September	Medium	Medium
October	Low	Medium
November	Low	Medium
December	Low	Low

None = 0 gal., Low = 5,000 gal., Medium = 10,000 gal., High = 15,000 gal.

Note: Cumulative application rate is not to exceed the permitted application rate.

#### E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by using a fan-type spreader mounted on the rear of the pump truck. The spreading will be done in rows beginning at one side of the field and working toward the other side. The rows applied by the fan spreader are approximately 15' wide. In the event that there is a problem with using the fan spreader, septage may be

discharged from the side valve. The rows in this method of spreading are approximately 8' wide.

#### F. Additional Fertility Requirements

Supplemental fertilizer may be required in order to maintain productive bermuda grass, rye grass, and tall fescue. These additions should be made only after soil and plant tissue analysis reveal the need for these nutrients. They should be applied as recommended by the test results.

#### G. Harvest of the Crops and their Use

1. The bermuda grass will be cut as hay and baled whenever it reaches approximately 12" in height or roughly every four to six weeks beginning in June. Approximately three or four harvests can be expected.
2. The rye grass will be cut as hay and baled in March or April.
3. The fescue will be cut as hay and baled whenever it reaches approximately 12" in height or roughly every four to six weeks beginning in June. Approximately three or four harvests can be expected.
4. A 30-day waiting period must be observed between the last application of the septage and harvest. Beginning about the first of March each year, septage will be applied strictly to Field #2 while the rye on Field #1 is undisturbed for 30 days. After 30 days, the rye in Field #1 will be harvested. By early May, a rotation should be established which can cycle every 30 to 45 days between the bermuda grass and the fescue harvests. By the end of November, rye will have been planted and the entire site will be available for septage application until the end of February the following year.
5. The bales will be sold to a local farmer to feed his beef cows and horses.

## SOIL EROSION & RUNOFF CONTROL PLAN

As the slopes on this site do not exceed 5 percent, a 50-foot buffer, planted in the aforementioned grasses, should suffice to prevent septage waste from migrating off of the fields.

Prepared and submitted by: William R. Hardee, Jr.  
William R. Hardee, Jr.  
Site Operator/Owner

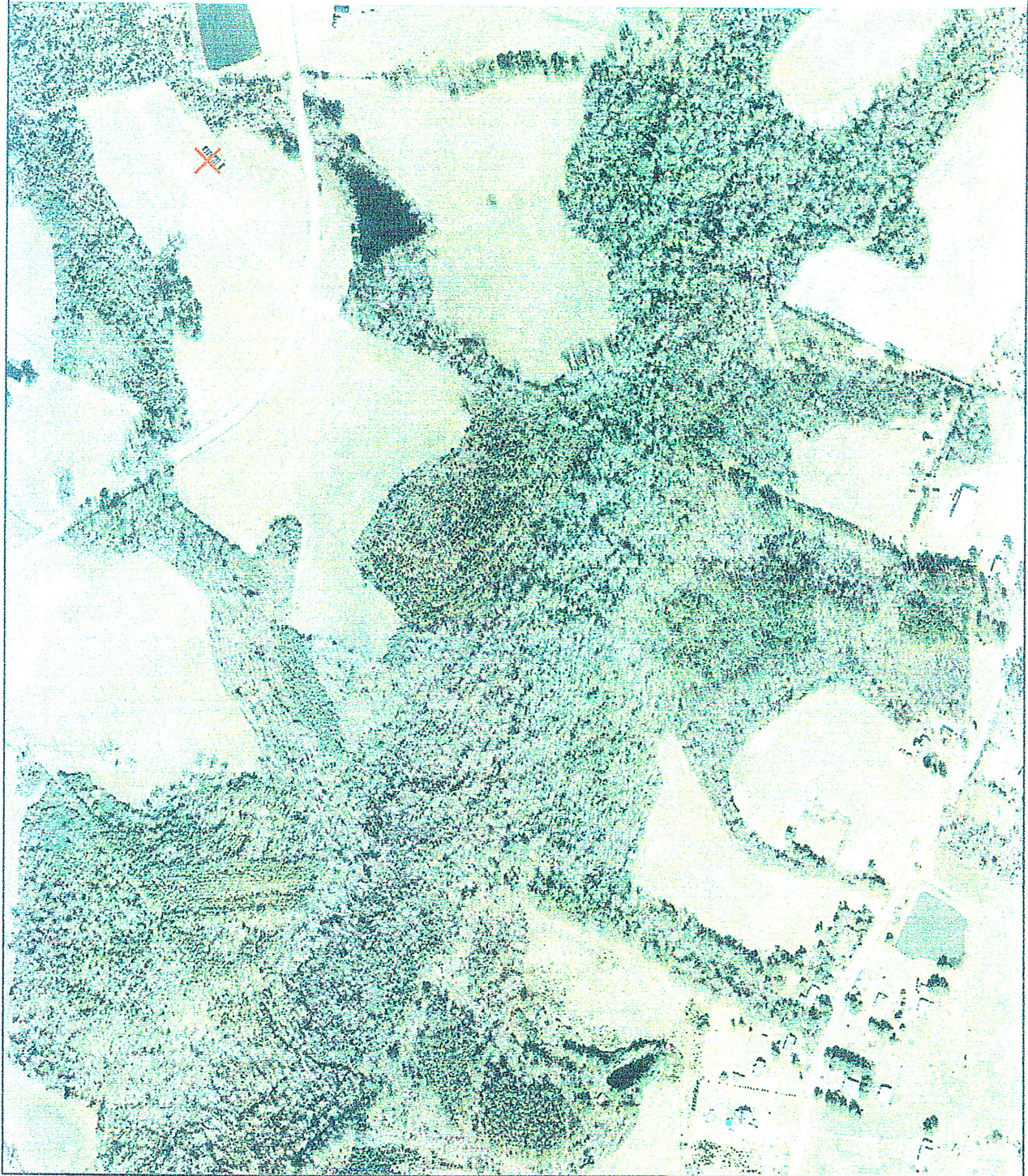
1-14-13  
Date

**Operator:**  
Bill Hardee Jr.  
**Landowner:**  
Same  
**County:** Harnett  
**Scale :** 1 inch = 400 feet  
**SLAS 43-04**  
F1 = 5.7 acres  
F2 = 5 acres  
10.7 acres  
Setbacks as noted



# SLAS SDTF-43-04

35.437906908° N latitude  
-78.711916257° W longitude



690 345 0 690 Feet

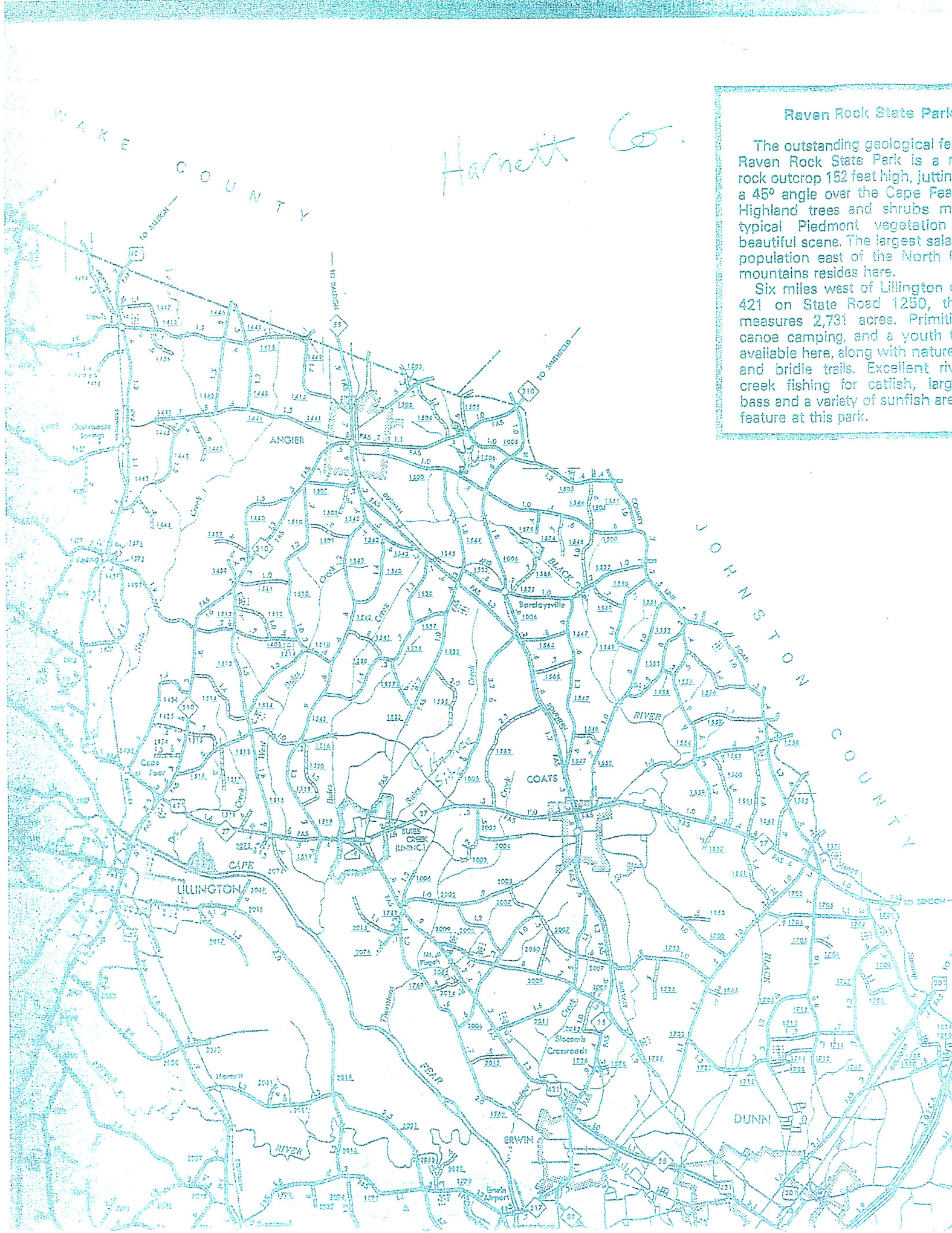


Source: NC OneMap ([www.nconemap.com](http://www.nconemap.com)).

The Sanborn Map Company, Inc., 20090109, Digital Orthophotography 2008 - Harnett County, North Carolina.

Map created by NC DENR Division of Waste Management. Compost & Land Application Branch for permitting purposes only.

crc -- Oct. 2009



### Raven Rock State Park

The outstanding geological feature of Raven Rock State Park is a rock outcrop 152 feet high, jutting at a 45° angle over the Cape Fear. Highland trees and shrubs in the typical Piedmont vegetation make a beautiful scene. The largest salamander population east of the North Carolina mountains resides here.

Six miles west of Ullington and 421 on State Road 1250, the park measures 2,731 acres. Primitive canoe camping, and a youth center are available here, along with nature and bridge trails. Excellent river creek fishing for catfish, largemouth bass and a variety of sunfish are a feature at this park.